

CLAIMS

1. A fifth wheel pin box assembly for towing a trailer behind a towing vehicle comprising a top member, a rubber shear spring, a first plate on said rubber shear spring attached relative to said top member, a skid pad, a second plate on said rubber shear spring attached relative to said skid pad, a rubber member bonded between said first and second plates, and a pin extending downwardly from said skid pad.
2. A fifth wheel pin box assembly as set forth in claim 1 including a column secured to said top member.
3. A fifth wheel pin box assembly as set forth in claim 1 including spaced blocks positioned between said top member and said skid pad and located on opposite sides of said shear spring.
4. A fifth wheel pin box assembly as set forth in claim 3 wherein said blocks are secured relative to said top member.
5. A fifth wheel pin box assembly as set forth in claim 4 wherein said blocks are secured to channels which are secured to said top member.
6. A fifth wheel pin box assembly as set forth in claim 2 including downwardly depending first edge portions on said top member, and second edge portions on said skid plate within and spaced from said first edge portions.

7. A fifth wheel pin box assembly as set forth in claim 6 wherein said first edge portions comprise bent-over ends on said top member, and strips on sides of said top member.

8. A fifth wheel pin box assembly as set forth in claim 1 including at least one confined space located relative to said top member, a restraining shaft located within said confined space, and said restraining shaft being connected to said skid pad.

9. A fifth wheel pin box assembly as set forth in claim 8 including a channel member secured to said top member, and wherein said confined space is within said channel member.

10. A fifth wheel pin box assembly as set forth in claim 8 including a column secured to said top member.

11. A fifth wheel pin box assembly as set forth in claim 10 including spaced blocks positioned between said top member and said skid pad and located on opposite sides of said said shear spring.

12. A fifth wheel pin box assembly as set forth in claim 11 wherein said blocks are secured relative to said top member.

13. A fifth wheel pin box assembly as set forth in claim 12 wherein said blocks are secured to channels which are secured to said top member.

14. A fifth wheel pin box assembly as set forth in claim 8 including spaced blocks positioned between said top member and said skid pad and located on opposite sides of said said shear spring.

15. A fifth wheel pin box assembly as set forth in claim 14 wherein said blocks are secured relative to said top member.

16. A fifth wheel pin box assembly as set forth in claim 15 wherein said blocks are secured to channels which are secured to said top member.

17. A fifth wheel pin box assembly as set forth in claim 14 wherein said skid pad is in sliding engagement with said blocks.

18. A fifth wheel pin box assembly as set forth in claim 17 wherein said blocks are secured relative to said top member.

19. A fifth wheel pin box assembly as set forth in claim 18 wherein said blocks are secured to channels which are secured to said top member.

20. A fifth wheel pin box assembly as set forth in claim 1 including first and second spaced confined spaces located relative to said top member, first and second restraining shafts located within first and second confined spaces and connected to said skid pad.

21. A fifth wheel pin box assembly as set forth in claim 20 including first and second spaced blocks positioned between said top member and said skid pad and located on opposite sides of said shear spring.

22. A fifth wheel pin box assembly as set forth in claim 21 wherein said first and second spaced blocks are secured relative to said top member.

23. A fifth wheel pin box assembly as set forth in claim 22 wherein said first and second blocks are secured to first and second channels which are secured to said top member, and wherein said first and second confined spaces are within said first and second channels.